

## TITLE OF THE INVENTION

LDPC (Low Density Parity Check) coded modulation hybrid decoding using non-Gray code maps for improved performance

## CROSS REFERENCE TO RELATED PATENTS/PATENT APPLICATIONS

5       The present U.S. Utility Patent Application claims priority pursuant to 35 U.S.C. § 119(e) to the following U.S. Provisional Patent Applications which are hereby incorporated herein by reference in their entirety and made part of the present U.S. Utility Patent Application for all purposes:

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- 10       1. U.S. Provisional Application Serial No. 60/478,690, "Coded modulation with LDPC (Low Density Parity Check) code using variable maps and metric updating," (~~Attorney Docket No. BP3036~~), filed June 13, 2003 (06/13/2003), pending.
  2. U.S. Provisional Application Serial No. 60/490,967, "LDPC (Low Density Parity Check) coded modulation symbol decoding," (~~Attorney Docket No. BP3089~~), filed July 29, 2003 (07/29/2003), pending.
  - 15       3. U.S. Provisional Application Serial No. 60/519,457, "LDPC (Low Density Parity Check) coded modulation hybrid decoding," (~~Attorney Docket No. BP3134~~), filed November 12, 2003 (11/12/2003), pending.
  4. U.S. Provisional Application Serial No. 60/548,971, "LDPC (Low Density Parity Check) coded modulation hybrid decoding using non-Gray code maps for improved performance," (~~Attorney Docket No. BP3134CIP~~), filed March 1, 2004 (03/01/2004), pending.
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      The present U.S. Utility Patent Application is also a continuation-in-part of U.S. Utility Patent Application Serial No. 10/723,574, entitled "LDPC (Low Density Parity Check) coded modulation hybrid decoding," (~~Attorney Docket No. BP3134~~),  
25       filed November 26, 2003 (11/26/2003), pending, which is hereby incorporated herein by reference in its entirety and made part of the present U.S. Utility Patent Application for all purposes.

## BACKGROUND OF THE INVENTION

## TECHNICAL FIELD OF THE INVENTION

30       The invention relates generally to communication systems; and, more particularly, it relates to decoding of signals within such communication systems.